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Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: Mon Aug 13 06:28:47 EDT 2007

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Application No: 10593362 Version No: 1.0

Input Set:

Output Set:

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Finished: 2007-08-10 18:15:27.738
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 285 ms
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Total Errors: 0
No. of SeqIDs Defined: 34
Actual SeqID Count: 34

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<110> BRAIN BIOTECHNOLOGY RESEARCH AND INFORMATION NETWORK AG
 Verseck, Stefan
 Osswald, Steffen
 Phong, Wai-Yee
 Liebeton, Klaus
 Eck, Jurgen

<120> Expression of nitrile hydratases in a two-vector expression system

<130> 009848-0356699

<140> 10593362
 <141> 2007-08-10

<150> 10/593,362
 <151> 2006-09-18

<150> PCT/EP2005/001688
 <151> 2005-02-18

<150> DE 10 2004 013 843.5
 <151> 2004-03-20

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<170> PatentIn version 3.1

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 Ala Pro Val Ser Asp Arg Ala Trp Ala Leu Phe Arg Ala Leu Asp Gly
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aag gga ttg gta ccc gac ggt tac gtc gag gga tgg aag aag acc ttc 144
 Lys Gly Leu Val Pro Asp Gly Tyr Val Glu Gly Trp Lys Lys Thr Phe
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gag gag gac ttc agt cca agg cgc gga gcg gaa ttg gtc gcg cgg gcg 192
 Glu Glu Asp Phe Ser Pro Arg Arg Gly Ala Glu Leu Val Ala Arg Ala
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Glu Glu Asp Phe Ser Pro Arg Arg Gly Ala Glu Leu Val Ala Arg Ala
50 55 60

Trp Thr Asp Pro Asp Phe Arg Gln Leu Leu Leu Thr Asp Gly Thr Ala
65 70 75 80

Ala Val Ala Gln Tyr Gly Tyr Leu Gly Pro Gln Gly Glu Tyr Ile Val
85 90 95

Ala Val Glu Asp Thr Pro Thr Leu Lys Asn Val Ile Val Cys Ser Leu
100 105 110

Cys Ser Cys Thr Ala Trp Pro Ile Leu Gly Leu Pro Pro Thr Trp Tyr
115 120 125

Lys Ser Phe Glu Tyr Arg Ala Arg Val Val Arg Glu Pro Arg Lys Val
130 135 140

Leu Phe Glu Met Gly Thr Glu Ile Ala Ser Asp Val Glu Ile Arg Val
145 150 155 160

Tyr Asp Thr Thr Ala Glu Thr Arg Tyr Met Val Leu Pro Gln Arg Pro
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Lys Asp Cys Leu Ile Gly Val Ala Val Pro Gln Val Pro Thr Val
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gaa cac ctg ccg tac agc ctg atg ttc gcc ggt gtc gcc gaa ctc ggg 144

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35 40 45	
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cgc cac tac atg atg acc ccg tac tac gag agg tac gtc atc ggc gtc	240
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65 70 75 80	
gcg aca ctg atg gtc gaa aag gga atc ctg acg cag gaa gaa ctc gaa	288
Ala Thr Leu Met Val Glu Lys Gly Ile Leu Thr Gln Glu Glu Leu Glu	
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agc ctt gca ggg gga ccg ttc cca ctg tcg cgg ccc agc gaa tcc gaa	336
Ser Leu Ala Gly Gly Pro Phe Pro Leu Ser Arg Pro Ser Glu Ser Glu	
100 105 110	
ggg cgg ccg gca ccc gtc gag acg acc acc ttc gaa atc ggt cag cga	384
Gly Arg Pro Ala Pro Val Glu Thr Thr Thr Phe Glu Ile Gly Gln Arg	
115 120 125	
gta cgc gtg cgc gac gag tac gtt ccg ggg cat att cga atg cct gcg	432
Val Arg Val Arg Asp Glu Tyr Val Pro Gly His Ile Arg Met Pro Ala	
130 135 140	
tac tgc cgc gga cga gtg gga acc atc tct cat cgg act acc gag aag	480
Tyr Cys Arg Gly Arg Val Gly Thr Ile Ser His Arg Thr Thr Glu Lys	
145 150 155 160	
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180 185 190	
gac acc gac ggc ggc agc gtc gta gtc gac ctt ttc gag ggt tac ctc	624
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Arg His Tyr Met Met Thr Pro Tyr Tyr Glu Arg Tyr Val Ile Gly Val
65 70 75 80

Ala Thr Leu Met Val Glu Lys Gly Ile Leu Thr Gln Glu Glu Leu Glu
85 90 95

Ser Leu Ala Gly Gly Pro Phe Pro Leu Ser Arg Pro Ser Glu Ser Glu
100 105 110

Gly Arg Pro Ala Pro Val Glu Thr Thr Thr Phe Glu Ile Gly Gln Arg
115 120 125

Val Arg Val Arg Asp Glu Tyr Val Pro Gly His Ile Arg Met Pro Ala
130 135 140

Tyr Cys Arg Gly Arg Val Gly Thr Ile Ser His Arg Thr Thr Glu Lys
145 150 155 160

Trp Pro Phe Pro Asp Ala Ile Gly His Gly Arg Asn Asp Ala Gly Glu
165 170 175

Glu Pro Thr Tyr His Val Lys Phe Asp Ala Glu Glu Leu Phe Gly Ser
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Asp Thr Asp Gly Gly Ser Val Val Val Asp Leu Phe Glu Gly Tyr Leu
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Trp Thr Asp Pro Glu Phe Arg Gln Leu Leu Leu Thr Asp Gly Thr Ala	
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gcg gtt gcc cag tac gga tac ctg ggc ccc cag ggc gag tac atc gtg	288
Ala Val Ala Gln Tyr Gly Tyr Leu Gly Pro Gln Gly Glu Tyr Ile Val	
85 90 95	

gca gtc gaa gac acc ccg acc ctc aag aac gtg atc gtg tgc tcg ctg	336
Ala Val Glu Asp Thr Pro Thr Leu Lys Asn Val Ile Val Cys Ser Leu	
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tgt tca tgc acc gcg tgg ccc att ctc ggc ctg ccc cct acc tgg tac	384
Cys Ser Cys Thr Ala Trp Pro Ile Leu Gly Leu Pro Pro Thr Trp Tyr	
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aag agt ttc gaa tac cgt gcg cga gtg gtg cgt gag cca cgg aag gtt	432
Lys Ser Phe Glu Tyr Arg Ala Arg Val Val Arg Glu Pro Arg Lys Val	
130 135 140	

ctc tcc gag atg gga acc gag atc gcg tcg gac gtc gag atc cgc gtc	480
Leu Ser Glu Met Gly Thr Glu Ile Ala Ser Asp Val Glu Ile Arg Val	
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tac gac acc acc gcc gaa act cgc tac atg gtt ctc ccg caa cgt ccc	528
Tyr Asp Thr Thr Ala Glu Thr Arg Tyr Met Val Leu Pro Gln Arg Pro	
165 170 175	

gca ggc acc gaa ggc tgg agc cag gaa caa ctg cag gaa atc gtc acc	576
Ala Gly Thr Glu Gly Trp Ser Gln Glu Gln Leu Gln Glu Ile Val Thr	
180 185 190	

aag gac tgc ctg atc ggc gtc gca gtc ccg cag gtc ccc acc gtc tga	624
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Lys Gly Leu Val Pro Asp Gly Tyr Val Glu Gly Trp Lys Lys Thr Phe
 35 40 45

Glu Glu Asp Phe Ser Pro Arg Arg Gly Ala Glu Leu Val Ala Arg Ala
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Trp Thr Asp Pro Glu Phe Arg Gln Leu Leu Leu Thr Asp Gly Thr Ala
 65 70 75 80

Ala Val Ala Gln Tyr Gly Tyr Leu Gly Pro Gln Gly Glu Tyr Ile Val
 85 90 95

Ala Val Glu Asp Thr Pro Thr Leu Lys Asn Val Ile Val Cys Ser Leu
 100 105 110

Cys Ser Cys Thr Ala Trp Pro Ile Leu Gly Leu Pro Pro Thr Trp Tyr
 115 120 125

Lys Ser Phe Glu Tyr Arg Ala Arg Val Val Arg Glu Pro Arg Lys Val
 130 135 140

Leu Ser Glu Met Gly Thr Glu Ile Ala Ser Asp Val Glu Ile Arg Val
 145 150 155 160

Tyr Asp Thr Thr Ala Glu Thr Arg Tyr Met Val Leu Pro Gln Arg Pro
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 Pro His Thr Val Asn Ala Asp Ile Gly Pro Thr Phe His Ala Glu Trp
 20 25 30
 gaa cac ctg ccg tac agc ctg atg ttc gcc ggt gtc gcc gaa ctc ggg 144
 Glu His Leu Pro Tyr Ser Leu Met Phe Ala Gly Val Ala Glu Leu Gly
 35 40 45
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 Ala Phe Ser Val Asp Glu Val Arg Tyr Val Val Glu Arg Met Glu Pro
 50 55 60
 cgc cac tac atg atg acc ccg tac tac gag agg tac gtc atc ggc gtc 240
 Arg His Tyr Met Met Thr Pro Tyr Tyr Glu Arg Tyr Val Ile Gly Val
 65 70 75 80
 gcg aca ctg atg gtc gaa aag gga atc ctg acg cag gat gaa ctc gaa 288
 Ala Thr Leu Met Val Glu Lys Gly Ile Leu Thr Gln Asp Glu Leu Glu
 85 90 95
 agc ctt gca ggg gga ccg ttc cca ctg tcg cgg ccc agc gaa tcc gaa 336
 Ser Leu Ala Gly Gly Pro Phe Pro Leu Ser Arg Pro Ser Glu Ser Glu
 100 105 110
 ggg cgt ccg gca ccc gtc gag acg acc acc ttc gaa atc ggt cag cga 384
 Gly Arg Pro Ala Pro Val Glu Thr Thr Thr Phe Glu Ile Gly Gln Arg
 115 120 125
 gta cgc gtg cgc gac gag tac gtt ccg ggg cat att cga atg cct gcg 432
 Val Arg Val Arg Asp Glu Tyr Val Pro Gly His Ile Arg Met Pro Ala
 130 135 140
 tac tgc cgc gga cga gtg gga acc atc tct cat cgg act acc gag aag 480
 Tyr Cys Arg Gly Arg Val Gly Thr Ile Ser His Arg Thr Thr Glu Lys
 145 150 155 160
 tgg cca ttt ccc gac gca atc ggc cac ggg cgc aac gac gcc ggc gaa 528
 Trp Pro Phe Pro Asp Ala Ile Gly His Gly Arg Asn Asp Ala Gly Glu

